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PLAGUE-PREVENTION WORK.**CALIFORNIA.**

The following report of plague-prevention work in California for the week ended October 7, 1916, was received from Passed Asst. Surg. Williams, of the United States Public Health Service, in temporary charge of the work:

FEDERAL AND COUNTY INSPECTION SERVICE.
(For the enforcement of the law of June 7, 1913.)

Counties.	Number inspected.	Number re-inspected.	Acres inspected.	Acres re-inspected.	Acres treated.		Holes treated.
					Waste balls.	Grain.	
Contra Costa.....	1	67	400	24,317	.....	5,092	.....
Alameda.....	.....	94	.....	25,042	.....	2,450	.....
Stanislaus.....	9	100	439	27,916	680	12,591	350
Santa Cruz.....	.....	30	.....	8,048	.....	1,051	.....
Merced.....	22	34	12,190	9,985	.....	9,785	.....
Monterey.....	21	16	13,953	9,260	.....	9,575	.....
San Benito.....	6	46	15,144	26,982	400	14,243	1,750
Santa Clara.....	45	11	13,714	4,227	.....	3,125	.....
San Mateo.....	7	8	2,427	215	.....	100	.....
Total.....	111	406	58,267	136,012	1,080	58,012	2,100

DELAYED REPORTS FOR WEEK ENDED SEPT. 30, 1916.

Contra Costa.....	21	.....	3,572	.....	.....	415	.....
Monterey.....	7	.....	2,370	.....	.....	250	.....
Total.....	28	.....	5,942	.....	.....	665	.....

RATS COLLECTED AND EXAMINED FOR PLAGUE.

Cities.	Collected.	Examined.	Infected.
Oakland.....	59	59	None.
Richmond.....	33	33	None.
Antioch.....	46	46	None.
Total.....	138	138	None.

RECORD OF PLAGUE INFECTION.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	(1)	308 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	(1)	126 rats.
Berkeley.....	Aug. 23, 1907	(1)	(1)	None.
Los Angeles.....	Aug. 11, 1908	(1)	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Merced).....	Sept. 24, 1909	Oct. 17, 1909 ²	June 23, 1916	293 squirrels, 1 wood rat.
Contra Costa.....	July 13, 1915	(1)	June 28, 1916	1,629 squirrels.
Fresno.....	(1)	(1)	Oct. 27, 1911	1 squirrel.
Merced.....	(1)	(1)	May 12, 1916	7 squirrels.
Monterey.....	(1)	(1)	May 27, 1916	32 squirrels.
San Benito.....	June 4, 1913	(1)	July 1, 1916	72 squirrels.
San Joaquin.....	Sept. 18, 1911	(1)	Aug. 26, 1911	18 squirrels.
Santa Clara.....	Aug. 31, 1910	(1)	June 21, 1916	32 squirrels.
San Luis Obispo.....	(1)	(1)	Jan. 29, 1910	1 squirrel.
Santa Cruz.....	(1)	(1)	May 30, 1916	5 squirrels.
Stanislaus.....	(1)	(1)	June 2, 1911	18 squirrels.
San Mateo.....	(1)	(1)	June 21, 1916	1 squirrel.

¹ None.² Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, Stanislaus, Monterey, San Benito, Santa Cruz, Merced, Santa Clara, and San Mateo.

OPERATIONS ON THE WATER FRONT.		OPERATIONS ON THE WATER FRONT—contd.	
Number of vessels inspected for rat guards..	14	Poisons placed on waterfront (pieces).....	3,600
Number of reinspections made on vessels...	1	Bait used on waterfront and vessels, bacon,	
Number of new rat guards procured.....	2	pounds.....	5
Rats trapped on wharves and waterfront...	75	Amount of bread used in poisoning water-	
Rats trapped on vessels.....	17	front (loaves).....	12
Number traps set on wharves and water-		front.....	4
front.....	286	Poisons placed within the Panama-Pacific	
Number traps set on vessels.....	138	International Exposition grounds (pieces).	36,000
Number of vessels trapped on.....	21		

The following is a record of municipal work performed under the supervision of the Public Health Service:

COOPERATIVE MUNICIPAL WORK.		WORK DONE ON OLD BUILDINGS.	
Number of premises inspected.....	673	Wooden floors removed.....	17
Number of nuisances abated.....	97	Number yards and passageways, planking	
Number of rats trapped.....	92	removed.....	1
Number of rats sent to laboratory.....	92	Cubic feet new foundation walls installed...	1,260
Number of rats examined.....	80	Concrete floors installed (sq. ft., 4,225).....	2
Number of poisons placed.....	53,100	Number of basements concreted (sq. ft.,	
Number of garbage cans stamped approved.	625	9,610).....	12
Rats identi. ed:		Yards and passageways, etc., concreted (sq.	
<i>Mus norvegicus</i>	50	ft., 1,275).....	7
<i>Mus rattus</i>	13	Total area concrete laid..... square feet..	15,110
<i>Mus alexandrinus</i>	29	Buildings razed.....	9

LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following report of plague-eradication work at New Orleans for the week ended October 14, 1916, was received from Passed Asst. Surg. Simpson of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.		BUILDINGS RAT-PROOFED—continued.	
Number of vessels fumigated with sulphur.	7	Number of buildings demolished.....	90
Number of vessels fumigated with cyanide		Total buildings rat-proofed to date (abated)	129,075
gas.....	11		
Pounds of sulphur used.....	170	LABORATORY OPERATIONS.	
Pounds of cyanide used in cyanide gas fum-		Rodents received by species:	
igation.....	565	<i>Mus rattus</i>	172
Pints of sulphuric acid used in cyanide gas		<i>Mus norvegicus</i>	762
fumigation.....	849	<i>Mus alexandrinus</i>	206
Clean bills of health issued.....	30	<i>Mus musculus</i>	7,910
Foul bills of health issued.....	3	Wood rats.....	93
		Musk rats.....	4
		Putrid.....	298
FIELD OPERATIONS.		Total rodents received at laboratory.....	9,443
Number of rodents trapped.....	9,492	Rodents examined.....	1,540
Number of premises inspected.....	7,398	Number of rats suspected of plague ¹	32
Notices served.....	446	Plague rats confirmed.....	0
Number of garbage cans installed.....	5		
BUILDINGS RAT-PROOFED..		PLAGUE RATS.	
By elevation.....	67	Case No. 340—	
By marginal concrete wall.....	117	Found at Banks and Hennessey Streets.	
By concrete floor and wall.....	104	Captured September 18, 1916.	
By minor repairs.....	285	Diagnosis confirmed October 8, 1916.	
Total buildings rat-proofed.....	573	Case No. 341—	
Square yards of concrete laid.....	6,127	Found at No. 517 Jackson Avenue.	
Number of premises, planking and shed		Captured September 18, 1916.	
flooring removed.....	44	Diagnosis confirmed October 10, 1916.	

¹ Indicates the number of rodents, the tissues of which were inoculated into guinea pigs. Most of them showed on autopsy only evidence of recent inflammatory process, practically none presented gross lesions characteristic of plague infection.

PLAGUE STATUS OF OCTOBER 14, 1916.

Total number of rodents captured to Oct. 14.....	882,765
Total number of rodents examined to Oct. 14.....	<u>388,692</u>

PLAGUE STATUS OF OCTOBER 14, 1916—continued.

Total cases of rodent plague to Oct. 14, by species:	
Mus musculus.....	6
Mus rattus.....	21
Mus alexandrinus.....	17
Mus norvegicus.....	<u>297</u>
Total rodent cases to Oct. 14.....	341

WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following report of plague-eradication work at Seattle for the week ended October 7, 1916, was received from Surg. Lloyd of the United States Public Health, Service, in charge of the work:

RAT PROOFING.

New buildings inspected.....	9
New buildings reinspected.....	33
Basements concreted, new buildings (square feet, 17,280).....	18
Floors concreted, new buildings (square feet, 3,775).....	3
Yards, etc., concreted, new buildings (square feet, 985).....	2
Sidewalks concreted (square feet).....	11,475
Total concrete laid, new buildings (square feet).....	<u>33,515</u>
New buildings elevated.....	4
New premises rat proofed, concrete.....	21
Old buildings inspected.....	7
Premises rat proofed, concrete.....	4
Floors concreted, old buildings (square feet, 2,225).....	4
Premises otherwise rat proofed, old buildings.....	2
Openings screened, old buildings.....	8
Rat holes cemented, old buildings.....	12
Wooden floors removed, old buildings.....	4
Wire screening used (square feet).....	345
Buildings razed.....	3

LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	23
Rodents trapped and killed.....	384
Rodents recovered after fumigation.....	<u>21</u>
Total.....	428
Rodents examined for plague infection.....	304
Rodents proven plague infected.....	0
Poison distributed (pounds).....	7
Bodies examined for plague infection.....	4
Bodies found plague infected.....	0

CLASSIFICATION OF RODENTS.

Mus rattus.....	35
Mus alexandrinus.....	82
Mus norvegicus.....	244
Mus musculus.....	<u>67</u>

WATER FRONT.

Vessels inspected and histories recorded...	15
Vessels fumigated.....	3
Sulphur used (pounds).....	2,500
New rat guards installed.....	9
Defective rat guards repaired.....	15
Fumigation certificates issued.....	3
Port sanitary statements issued.....	<u>40</u>

The usual day and night patrol was maintained to enforce rat guarding and fending.

MISCELLANEOUS WORK.

Rat-proofing notices sent contractors, new buildings.....	16
Letters sent in re rat complaints.....	3

RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	45
Mus musculus trapped.....	8
Total.....	<u>53</u>
Rodents examined for plague infection....	49
Rodents proven plague infected.....	0

RAT-PROOFING OPERATIONS IN EVERETT.

New buildings inspected.....	2
New buildings reinspected.....	3
Yards concreted, new buildings (square feet, 910).....	2
Total concrete laid, new buildings (square feet, 910).....	

RODENTS EXAMINED IN TACOMA.

Mus norvegicus trapped.....	193
Mus rattus trapped.....	2
Mus alexandrinus trapped.....	<u>1</u>
Total.....	196
Rodents examined for plague infection....	189
Rodents proven plague infected.....	0

HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

Honolulu.**WEEK ENDED OCT. 7, 1916.**

Total rats and mongoose taken.....	305	Average number of traps set daily.....	984
Rats trapped.....	295	Cost per rat destroyed.....	25 cents.
Mongoose trapped.....	4	Last case rat plague, Aiea, 9 miles from Honolulu,	
Rats killed by sulphur dioxide.....	6	April 12, 1910.	
Examined microscopically.....	258	Last case human plague, Honolulu, July 12, 1910.	
Examined macroscopically.....	47	Last case rat plague, Paaupau, Hawaii, January	
Showing plague infection.....	None.	18, 1916.	
Classification of rats trapped:		Last case human plague, Paaupau plantation,	
<i>Mus alexandrinus</i>	125	Hawaii, December 16, 1915.	
<i>Mus musculus</i>	88		
<i>Mus norvegicus</i>	57		
<i>Mus rattus</i>	25		

Hilo.**WEEK ENDED SEPT. 30, 1916.**

Number of rats and mongoose received.....	2,697	Classification of rats trapped and found dead:	
Number of rats trapped.....	2,627	<i>Mus norvegicus</i>	576
Number of mongoose received.....	70	<i>Mus alexandrinus</i>	343
Number of rats and mongoose examined macroscopically.....	2,697	<i>Mus rattus</i>	562
Number of rats and mongoose plague infected.....	None.	<i>Mus musculus</i>	1,146

WEEK ENDED OCT. 7, 1916.

Number of rats and mongoose received.....	3,038	Classification of rats trapped and found dead:	
Number of rats trapped.....	2,980	<i>Mus norvegicus</i>	580
Number of mongoose received.....	58	<i>Mus alexandrinus</i>	362
Number of rats and mongoose examined macroscopically.....	3,038	<i>Mus rattus</i>	653
Number of rats and mongoose plague infected.....	None.	<i>Mus musculus</i>	1,385
		Last case of rat plague, Paaupau Sugar Co., January 18, 1916.	
		Last case of human plague, Paaupau Sugar Co. December 16, 1915.	